



Product / Process Change Notification (PCN)

- ☒ Major Change
☐ Minor Change

PCN Number: PCN_IndLHMI_20241227

Affected Series: WE-LHMI

Affected Order Codes: Please refer to table 1

PCN Date: 2024-09-27 (YYYY-MM-DD)

Effective Date: 2024-12-27 (YYYY-MM-DD)

Change Category:

- ☐ Equipment/Location
☒ General Data
☐ Material
☒ Process
☒ Product Design
☐ Shipping/Packaging
☐ Supplier
☐ Software

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Datasheet Change:

- ☒ Yes ☐ No

Attachment:

- ☐ Yes ☒ No

Description of Change:

With the aim of an extended product applicability, Würth Elektronik eiSos will change the product marking by including the start of winding point; and in line with internal standardization, Würth Elektronik eiSos will ensure some datasheet improvements for the product series WE-LHMI with sizes and order codes indicated in table 1.

There will be no change in form, fit, function, quality, or reliability of the product.

The new revision of the affected order codes will be sent out after the previous revision is out of stock (according to FIFO - first-in, first-out).

Details of Change:

Table 1. Affected order codes

1. Size 4012:

744373210010	744373210022	744373210047	74437321010	74437321015
74437321022	74437321033	74437321047	74437321056	74437321068
74437321082	74437321100			

2. Size 4020:

744373240010	744373240022	744373240033	744373240047	744373240056
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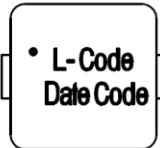
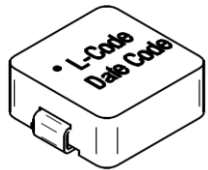
744373240068	74437324010	74437324012	74437324015	74437324022
74437324033	74437324047	74437324056	74437324068	74437324082
74437324100	74437324150	74437324220	74437324220.	
3. Size 5020:				
744373340033	744373340047	744373340068	74437334010	74437334012
74437334015	74437334022	74437334033	74437334047	74437334056
74437334068	74437334082	74437334100		
4. Size 5030:				
744373360033	744373360047	744373360068	74437336010	74437336012
74437336015	74437336022	74437336033	74437336047	74437336056
74437336068	74437336100			
5. Size 7030:				
744373460022	744373460033	744373460047	744373460068	744373460082
74437346010	74437346015	74437346018	74437346022	74437346025
74437346033	74437346047	74437346056	74437346068	74437346082
74437346100	74437346150	74437346220		
6. Size 7050:				
744373490047	744373490056	744373490068	744373490082	74437349010
74437349012	74437349015	74437349022	74437349033	74437349047
74437349056	74437349068	74437349082	74437349100	74437349150
74437349220	74437349330	74437349470	74437349560	74437349680
S20100113				
7. Size 1040:				
744373680022	744373680036	744373680039	744373680045	744373680056
744373680068	74437368010	74437368022	74437368033	74437368039
74437368047	74437368056	74437368068	74437368100	74437368150
74437368220	74437368330	74437368470	S13100059	
8. Size 1335:				
744373770022	744373770033	744373770047	744373770056	744373770068
74437377010	74437377015	74437377022	74437377033	74437377047
9. Size 1365:				
7443739650022	7443739650033	7443739650047	7443739650056	7443739650068
744373965010	744373965015	744373965022	744373965033	744373965047
744373965056	744373965068	744373965100	744373965101	744373965101A
744373965120	744373965150	744373965220	744373965330	744373965470
S15100033				

10. Size 1770

74437389074	S15100133	S20100135		
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1. For the product series WE-LHMI with sizes and order codes indicated in table 1, the corresponding datasheet will be updated by indicating the start of winding point in the product marking representation and the schematic. Besides, Würth Elektronik eiSos advises the winding towards as clockwise in the general properties table.

Table 2. Upgrades regarding the dot marking

	Before change	After change
Schematic		
Marking reported in datasheet	For all the sizes:   With marking as: L-Code and Date-Code for the size 4012 and 4020. With marking as: WE, L-Code and Date-Code the size 5020, 5030, 7030, 7050, 1040, 1335, 1365 and 1770.	For the size 4012 and 4020:   For the size 5020, 5030, 7030, 7050, 1040, 1335, 1365 and 1770:   With L-Code as the Inductance Code, and Date Code as YYWW, where YY is the year and WW is the week number according to the ISO-8601 standard.
General Properties	No reference to start of winding.	Start of Winding: Winding towards clockwise.
Product example for size 1040		

2. Performance Rated Current and Rated Current for the series WE-LHMI with sizes and order codes indicated in table 1, will be standardized in the datasheet agreeing to IEC 62024-2:2020 standard. Performance Rated Current will supersede Rated Current. Because of this, the phrase Rated Current will not be used anymore. Typical Temperature Rise vs. Current Characteristics curves will be standardized accordingly. As an illustration of the standardization, the changes in the Electrical Properties Table for the part number 74437346018 is summarized as follows:

Table 3. Performance Rated Current

Before change						After change					
Properties		Test conditions	Value	Unit	Tol.	Properties		Test conditions	Value	Unit	Tol.
Rated Current	$I_{R,40K}$	$\Delta T = 40\text{ K}$	6.8	A	max.	Performance Rated Current ¹⁾	I_{RP}	$\Delta T = 40\text{ K}$	8.8	A	max.
Performance Rated Current ¹⁾	$I_{RP,40K}$	$\Delta T = 40\text{ K}$	8.8	A	max.	¹⁾ Performance Rated Current I_{RP} supersedes Rated Current I_R in all previously published material.					
¹⁾ refer to IEC 62024-2:2020						Test conditions of Performance Rated Current: refer to IEC 62024-2, Class C (PCB Copper Width: 40 mm; PCB Copper Thickness: 105 μm)					

For further information, please refer to our landing page: [What do rated current values mean? \(we-online.com\)](https://www.we-online.com/what-do-rated-current-values-mean/)

3. Besides, as part of the datasheet's improvement, the maximum Operating Voltage of 120 V will be added in the Electrical Properties table for the series WE-LHMI with sizes and order codes indicated in table 1, as follows:

Table 4. Operating voltage

Before change	After change						
None.	<table><tr><td>Operating Voltage</td><td>V_{op}</td><td>DC</td><td>120</td><td>V</td><td>max.</td></tr></table>	Operating Voltage	V_{op}	DC	120	V	max.
Operating Voltage	V_{op}	DC	120	V	max.		

Reliability / Qualification of Change:

Product approval is according to the specification criteria and is internally released by the product management department. The following items are part of the internal release process:

- Approval of production line.
- An additional reliability testing. Details of the performed and approved tests can be found in the table below:

Table 5. Test done

Test Item	Sample size	Reference	Test conditions	Acceptance
External Visual	30	MIL-STD-883-2009	N/A	Approved
Electrical Characterization	30	User Spec.	Measure electrical property @ 20 °C	Approved